

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P257296

Luminaire Tested: **D3X-WD-40L840-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257296  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-40L840-LD5-UNV-22-T1-STD  
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH ROUND PERF  
Light Source: (126) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3758.2 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

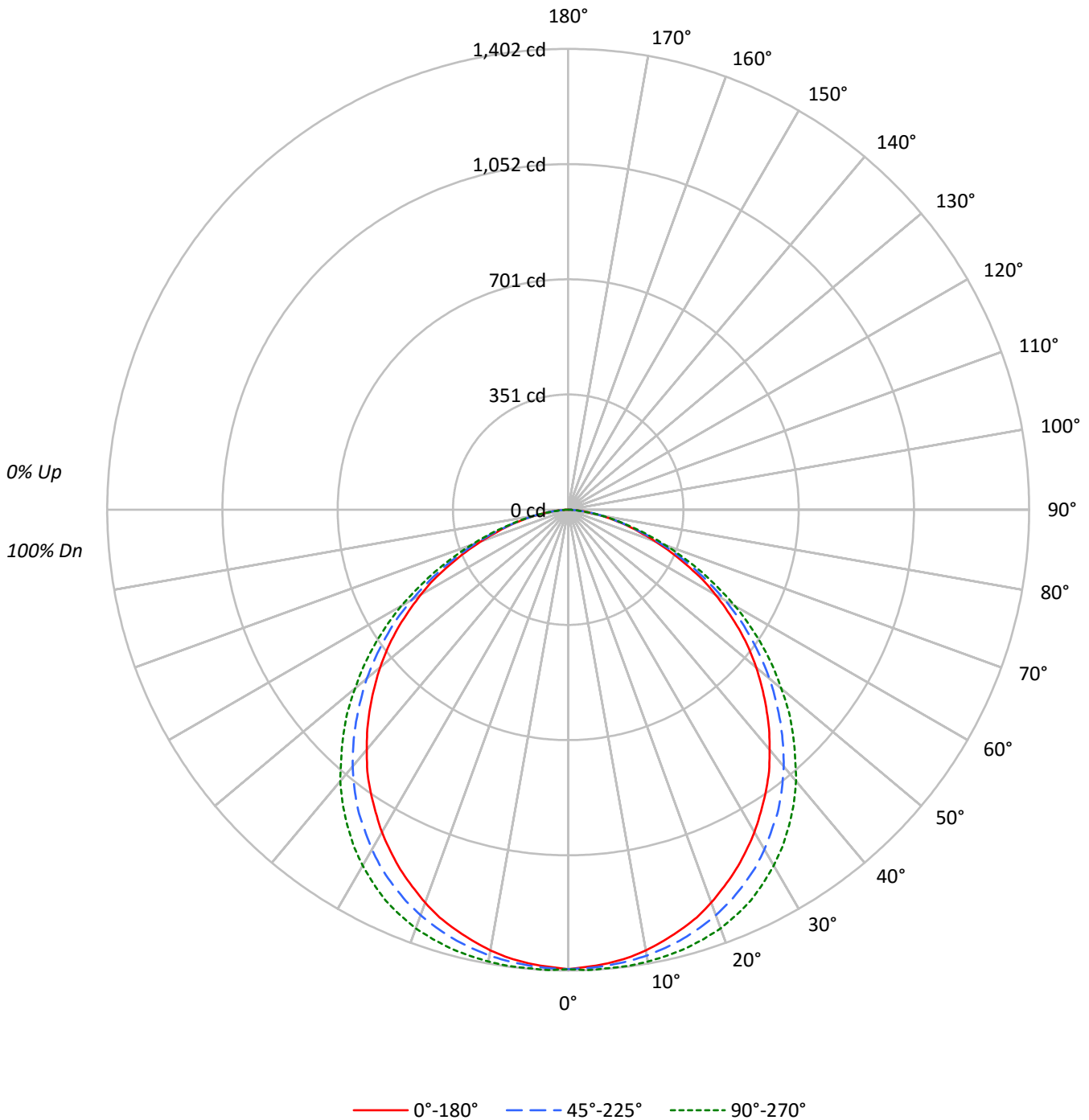
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3761	3761	3761
5°	3743	3760	3781
10°	3720	3764	3814
15°	3686	3765	3849
20°	3644	3760	3881
25°	3586	3742	3898
30°	3520	3709	3885
35°	3442	3662	3848
40°	3347	3582	3788
45°	3241	3472	3680
50°	3125	3345	3540
55°	2980	3179	3379
60°	2787	2961	3157
65°	2525	2679	2847
70°	2228	2340	2467
75°	1914	1956	2040
80°	1536	1567	1599
85°	1124	1000	1000



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.5	3.5
10°-20°	381.6	10.2
20°-30°	580.4	15.4
30°-40°	694.4	18.5
40°-50°	702.0	18.7
50°-60°	604.1	16.1
60°-70°	417.1	11.1
70°-80°	202.2	5.4
80°-90°	43.9	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1094.5	29.1
0°-40°	1788.9	47.6
0°-60°	3095.0	82.4
0°-90°	3758.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3758.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1398	1398	1398	1398	1398	
5°	1386	1388	1392	1398	1400	132
15°	1323	1331	1351	1372	1382	373
25°	1208	1222	1260	1299	1313	556
35°	1048	1066	1115	1155	1171	655
45°	852	868	912	951	967	657
55°	635	645	678	708	720	566
65°	396	403	421	439	447	395
75°	184	180	188	194	196	195
85°	36	36	32	32	32	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1397.8	1397.8	1397.8	1397.8	<i>1397.8</i>
2.5°	<i>1391.8</i>	<i>1391.8</i>	<i>1395.8</i>	<i>1399.9</i>	<i>1401.9</i>
5°	1385.7	1387.7	1391.8	1397.8	<i>1399.9</i>
7.5°	1375.6	1377.6	1385.7	1395.8	<i>1399.9</i>
10°	1361.4	1365.5	1377.6	1389.8	<i>1395.8</i>
12.5°	1343.2	1351.3	1365.5	1381.7	<i>1389.8</i>
15°	1323.0	1331.1	1351.3	1371.5	<i>1381.7</i>
17.5°	1300.7	1308.8	1333.1	1359.4	<i>1369.5</i>
20°	1272.4	1284.6	1312.9	1343.2	<i>1355.4</i>
22.5°	1240.1	1256.2	1288.6	1321.0	<i>1335.1</i>
25°	1207.7	1221.8	1260.3	1298.7	<i>1312.9</i>
27.5°	1171.3	1187.5	1229.9	1268.4	<i>1282.5</i>
30°	1132.8	1149.0	1193.5	1236.0	<i>1250.2</i>
32.5°	1090.4	1110.6	1153.1	1197.6	<i>1213.8</i>
35°	1047.9	1066.1	1114.6	1155.1	<i>1171.3</i>
37.5°	1003.4	1019.6	1068.1	1110.6	<i>1126.8</i>
40°	952.8	971.0	1019.6	1062.0	<i>1078.2</i>
42.5°	904.2	922.5	967.0	1007.4	<i>1021.6</i>
45°	851.7	867.8	912.3	950.8	<i>967.0</i>
47.5°	799.1	817.3	855.7	894.1	<i>910.3</i>
50°	746.5	760.6	799.1	835.5	<i>845.6</i>
52.5°	691.8	704.0	738.4	770.7	<i>784.9</i>
55°	635.2	645.3	677.7	708.0	<i>720.2</i>
57.5°	574.5	586.6	617.0	639.2	<i>653.4</i>
60°	517.9	523.9	550.2	572.5	<i>586.6</i>
62.5°	461.2	463.3	483.5	505.7	<i>513.8</i>
65°	396.5	402.6	420.8	439.0	<i>447.1</i>
67.5°	337.8	343.9	358.1	372.2	<i>378.3</i>
70°	283.2	283.2	297.4	307.5	<i>313.6</i>
72.5°	228.6	230.6	240.7	246.8	<i>252.9</i>
75°	184.1	180.0	188.1	194.2	<i>196.2</i>
77.5°	137.6	135.5	141.6	143.6	<i>147.7</i>
80°	99.1	99.1	101.1	103.2	<i>103.2</i>
82.5°	64.7	64.7	66.8	62.7	<i>60.7</i>
85°	36.4	36.4	32.4	32.4	<i>32.4</i>
87.5°	12.1	12.1	12.1	14.2	<i>12.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)